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## ABSTRACT

2 A toothed pipe gripping die insert has textured surfaces on the die surface  
3 opposite the pipe gripping teeth to reduce the insert-to-insert carrier contact surface  
4 area to increase unit loading such that selected loads forcing the die insert against its  
5 carrier impresses the textured pattern into the carrier surface to reduce the tendency  
6 for the die insert to slide on the die carrier surface.

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